



Revision number:

Purchasing Agent: Debbie Gundersen

Item: CATCH BASIN AND CULVERT CLEANING MACHINE

Vendor: 00938A H & K Truck Equipment
1103 South 700 West
Salt Lake City UT 84104-1543

Internet Homepage:

Telephone: (801) 886-3000

Fax number: (801) 886-0424

Contact: Kevin L. Hamrick

Email address:

Brand/trade name:

Price:	See Attached Price List
Terms:	Net 30
Effective dates:	08/20/99 through 08/20/00
Days required for delivery:	120-150 Days
Price guarantee period:	One Year
Minimum order:	One
Min shipment without charges:	One
Other conditions:	One Year Renewal Option

THIS IS A NEW CONTRACT.

This contract covers only those items listed in the price schedule. It is the responsibility of the agency to ensure that other items purchased are invoiced separately. State agencies will place orders directly with the vendor (creating a PG in Finet) and make payments for the same on a PV referencing the original PG. Agencies will return to the vendor any invoice which reflects incorrect pricing.



- #1- Catch basin and culvert cleaning machine. Mounted on a 60,000 G.V.W. minimum tandem axle cab and chassis truck. Safe Jet Vac Model 0620 and International 2574. \$159,980.00/each

The machine is to be a new unit of current model. It is to meet the following minimum specifications, but is not limited as to features furnished by the manufacturer. Machine is to have all standard features unless otherwise specified below. Also it is to be delivered serviced, tested and ready to operate with correct fluids at operating levels and with a full tank of fuel.

Equipment furnished to the State of Utah must meet current State and Federal safety regulations.

ENGINE EQUIPMENT	Spin on oil filter and fuel filter. Single stage heavy duty air filter. Air clutch fan, Kysor preferred. 1200watt/120 volt block heater with cab mounted receptacle. Engine mounted compression brake with 2 or 3 step control. Ignition key (solenoid) shut off.
CHARGING SYSTEM	100 amp minimum alternator, internally regulated, Delco preferred. 3 each, group 31 batteries, to produce 2500 cca preferred. Battery box, to be mounted under cab.
COOLING SYSTEM	Premium coolant hoses and constant torque clamps. 1000sq. ft. minimum frontal area radiator. System to have a surge tank and be protected to -35° F.
EXHAUST	Vertical muffler stack with shield, pipe RH with turnout preferred.
BRAKE EQUIPMENT	To have minimum 13.2 cfm air compressor. One air tank per axle. Bendix or Midland heated air dryer. Manual air tank drain valves if accessible or pull cables to drain tanks.
CLUTCH	To have Spicer, heavy duty, angle spring, 14 inch, or 15 ½ inch ceramic faced, dual plate clutch with spring dampened disks and 2 piece clutch brake. Clutch to be equipped with an extended lube line.
TRANS.	To be Fuller FRO-14210C 10-Speed Overdrive or equal.
REAR	Tandem drive axles with power divider, 46,000 lb "Rockwell" RT-46-160 AXLE or equal, ratio: 4.89.
REAR SUSPENSION	Hendrickson RT2 460, rated at 46,000 lb. or equal.
DRIVE SHAFTS	Tubular drive shafts with coated splines and strap type yokes. Inter-axle shaft with coated splines and strap type yokes.



FRONT AXLE	To be Rockwell or approved equal, capacity 20,000 lb., minimum. Oil type hubs with Stemco or C.R. seals and visible caps.
FRONT SUSPENSION	Capacity 20,000 lbs. minimum.
SERVICE BRAKES	Cam brakes, 16 ½ X 6, on front axle. Cam brakes, 16 ½ X 7, on rear axle. To have Eaton Haldex automatic slack adjusters or approved equal. ABS brakes on full vehicle.
PARKING BRAKE	Maxi II or approved equal brakes on both axle of tandems.
STEERING SYSTEM	Ross dual power steering system or approved equal.
WHEELS AND TIRES	Tubeless Radial 425/65R22.5-18. 20,000 Goodyear Unisteel G286 Disc 10 H Steel 22.5x12.25. ISO Tubeless Radial 11R22.5-16. 23,200 Goodyear Unisteel G124 Disc 10 H Steel 22.5x8.25 ISO
FUEL TANK	Fuel tank(s) 100 Gal. minimum capacity, mounted below door.
FRAME	Fabricated from 30.0 sm 110,000 psi minimum, double channel, steel. Back up alarm. Turn signals front and rear, hazard warning lights, tail and brake lights. Square Cut frame ends
CAB	Forward tilting hood. Dual air horn. Tinted windshield. Intermittent electric windshield wipers with heavy duty 2 speed motor. Dual Western stainless/heated mirrors. Spot mirrors mounted under regular mirrors. Heavy duty air conditioning and heater. AM/FM Stereo radio with cassette. 18 inch diameter steering wheel. Rear window between seats. Dual sun visors. Electric windshield washers. Five amber cab marker lights. Grab handles on both sides.
SEATS	Seat belts, driver and passenger, lap and shoulder. Driver, National Mid- Back Air Suspension Lumbar Support. Passenger, National Mid-Back Fixed Economy. Both seats to be cloth and have arm rests.
INSTRUMENTS	Voltmeter, fuel gauge, coolant temperature gauge, exhaust pyrometer, engine oil pressure gauge, air pressure gauge, hour meter, tachometer, speedometer and locking air filter restriction gauge. To have inter-axle lock warning light. To have low air pressure warning light and buzzer. Warning lights for low coolant level, high coolant temperature and low engine oil pressure. All instruments to be dash mounted.

**PAINT**

Complete unit to be painted manufactures color white. Includes all wheels, cab, and bumper. No chrome to be painted. Make and model emblems allowed but all other advertising to be omitted. The frames may be painted black.

**MOUNTED
EQUIPMENT****DEBRIS BODY**

Debris tank is to be of a 5 yard capacity, cylindrical design, minimum of 1/4 inch plate thickness, and withstand a vacuum of not less than 360 column inches of water. Emptying will be of a dumping design with rear door opening on a hydraulic opening devise and hydraulic rear door locks with over center cam design to prevent accidental opening of debris door due to loss of hydraulic power. Dumping and door controls shall be located forward of debris body. All hinges and pivot points shall have greasable fittings.

Debris tank to have internal permanent mounted high pressure flushing system with minimum full flow and pressure of 80 GPM-2000PSI. Tank will have external float type debris lever indicator as well as a sight glass. A 6"screen protected knifegate valve with 15 feet of lay flat hose and stage rack, placed on rear of unit, for water decanting.

WATER TANKS

Minimum of 2000 gallons, constructed of non-corrosive metal or ultraviolet stabilized stress-reinforced polyethylene. Tanks will be interconnected to provide uniform filling and designed to allow removal of any single tank and still maintain full operation ability of unit. All tanks shall be located above high pressure water pump inlet to provide flooded suction to pump.

**WATER PUMP
SYSTEM**

Capable of producing 2000 PSI at 80GPM. Water system to have an adjustable full flow pressure regulator, filtering system between tank and pump and a shut off valve between filter and supply tank. Oil filled pressure valve and flow controls to be located at the front of truck. Unit to have a truck air purge system and cold weather water recirculating system to prevent freezing during work hours in sub-zero temperatures.

*Bid response**Comply_____ Exceptions_____***VACUUM**

Positive displacement rotary lobe Roots blower, capable of producing **SYSTEM** 3500 CFM with a minimum of 200 inches of water column at maximum engine RPM. System to have 2 vacuum relief valves set to relieve prior to blower damage in case of vacuum blockage. To have a dirt and dust separator for protection from abrasive materials.

HYDRAULIC

To be one system to supply all hydraulic power needs on unit with the **SYSTEM** exception of the hose reel tilt mechanism. Filters mounted in the demand line from the supply tank.

**BOOM**

Hydraulic powered up/down, left/right, and in/out. Six (6) inch I.D. hose with Aquatech style ball and socket type fittings. Schedule 80 heavy duty radius elbow where suction hose makes transition from horizontal to vertical change. Cab protection devise so as prevent the boom from contacting the cab of truck. Front mounted location for in-transit storage and positioning. 180 degrees minimum rotation left and right from front of truck.

Unit shall have a minimum of 4 foot true telescoping boom extension without affecting the steel elbow or lower debris hose vertical position. To have a hydraulic pressure gage mounted on solenoid control valve bank. Unit to have a minimum lifting capacity of 1000 lbs. at boom tip with boom fully extended. A permanently mounted joy-stick control in panel at operators station and also a hard wired pendant control for remote operation of boom to be stored in water tight cabinet behind truck cab with access on curb side of truck.

REEL/OPERATOR STATION

Reel mounted on front truck frame rails with 180 degree rotating capability. Reel shall tilt forward for access to truck engine compartment. Tilting to be accomplished by a hydraulic cylinder powered by an electric/hydraulic power pack which can be operated when truck engine is not running. Hose reel shall have a rotation brake and/or locking device to stabilize reel for operation. Reel to have a capacity of 800 ft. of 1" hose and come equipped with 600 ft. of 1" hose. Hose will have a bursting pressure rating of no less that 2500 PSI.

Gages needed at operators station:

Engine tachometer
Vacuum gage.
Oil filled water pressure gauges
Electronic chassis throttle control.
On/off water pressure control valve
Vacuum pump engagement
Water pump engagement
Boom control joy stick
Emergency kill switch
Reel speed control and direction control
Reel articulation brake
Reel hydraulic tilt switch
Low water level audible alarm

OPTION

One complete set of replacement filters for each unit delivered.

OPTION

Body interconnect so as to store water in the debris body for flushing purposes along with storage tanks.



Delivery must include dealer's invoice and a copy of warranty.

Delivery must include an operator's manual for each unit.

Delivery must also include 4 complete sets of manuals including: operator's manual, parts lists and shop (repair) manuals for all components including engine, transmission, axles and chassis etc. Cost of these manuals is to be included in the bid.

Invoices will not be approved for payment until all of the required documentation is correct and manuals have been received.

OPTION AVAILABLE (NOT INCLUDED IN BASE BID)	
DESCRIPTION	PRICE
BASE MACHINE OPTIONS	
MODEL 0910-9.0 CUBIC YARD/1,000 GALLON	(\$2,264.00)
MODEL 0915-9.0 CUBIC YARD/1,500 GALLON	(\$1,105.00)
MODEL 1215-12.0 CUBIC YARD/1,500 GALLON	\$3,334.00
CAB & CHASSIS (CLEAN EARTH STOCK UNITS - SUBJECT TO AVAILABILITY)	
STERLING MODEL LT 7500 (SEE ATTACHED EQUIPMENT LIST) ILO INTERNATIONAL 2574	\$3,445.00
OPTIONS SPECIFIC TO SAFEJETVAC L SERIES	
VALVE AT Y STRAINER	\$138.00
TRANSFER CASE DIPSTICK	\$225.00
SAFEWALK PLATFORM	\$670.00
GALVANIZE ENTIRE DEBRIS TANK	\$2,300.00
HANDGUN WITH 25' HOSE	\$250.00
ONE (1) LOCKABLE TOOL BOX	\$575.00
DEBRIS TANK OPTIONS	
3" SLUDGE SYSTEM (500 GPM @ 20' HEAD)	\$4,200.00
BLASTER VALVE/DECANT SYSTEM	\$240.00
3" DECANT LINE PLUMBED TO FRONT WITH VALVE	\$1,680.00
8" INSPECTION PORT ON TOP OF DEBRIS TANK	\$275.00
TAILGATE SPLASH SHIELD (CARBON STEEL)	\$735.00
GALVANIZED POWER RACK	\$1,600.00



OPTION AVAILABLE (NOT INCLUDED IN BASE BID)	
DESCRIPTION	PRICE
TANK INTERCONNECT SYSTEM WITH DEBRIS TANK	\$610.00
TANK INTERCONNECT SYSTEM WITH ISOLATION VALVE	\$1,120.00
Y-STRAINER ON FILL LINE	\$236.00
HIGH PRESSURE WATER SYSTEM OPTIONS	
65 GPM/2,000 PSI - F.E. MYERS DP 80-20	(\$676.00)
EXTRA HANDGUN CONNECTIONS	\$285.00
SELF-WINDING HANDGUN HOSE REEL - 50 FOOT CAPACITY	\$870.00
BLOCKBUSTER VALVE	\$310.00
LOW POINT DRAINS - FRONT MOUNT	\$625.00
VACUUM SYSTEMS OPTIONS	
ROOTS/DRESSER 824 VACUUM PUM 3,660 CFM @ 16" HG	\$6,515.00
MANUAL 4" VACUUM RELIEF VALVE	\$535.00
4" VACUUM RELIEF VALVE, CONTROLLED FROM PANEL (AIR OPERATED)	\$1,225.00
BOOM OPTIONS	
6-FOOT 6-INCH BOOM EXTENSION (CONSULT FACTORY FOR REAR MOUNT)	\$3,850.00
8-FOOT 6-INCH BOOM EXTENSION (CONSULT FACTORY FOR REAR MOUNT)	\$4,850.00
SLIDE VALVE, AIR PISTON, CONTROL ON BOOM PENDANT AND CONTROL PANEL	\$2,375.00
OPERATOR CONTROL PANELS OPTIONS	
BLOWER TEMPERATURE GAUGE	\$325.00
HYDRAULIC PRESSURE GAUGE	\$275.00
LOW WATER LIGHT	\$200.00
WATER PUMP HOURMETER	\$260.00



OPTION AVAILABLE (NOT INCLUDED IN BASE BID)	
DESCRIPTION	PRICE
HOSE REEL OPTIONS	
FOOTAGE COUNTER ON REEL FLANGE	\$470.00
LEXAN SPLASH GUARD	\$1,300.00
TELESCOPING LEVEL WIND	\$180.00
TOOL BOXES/EXCLOSURES/STORAGE OPTIONS	
ADDITIONAL TOOL BOX (18" X 18" X 36")	\$575.00
NOZZLE RACK	\$120.00
REAR DOOR TUBE RACK/HOLDS (2) TUBES	\$585.00
TRAFFIC CONE HOLDER	\$175.00
WATER COOLER HOLDER	\$205.00
TOOL TRAY (60")	\$485.00
LIGHTING OPTIONS	
HAND SPOTLIGHT WITH 20' CORD RETRACTABLE REEL	\$316.00
BOOM WORK LIGHT, ONE (1)	\$345.00
ADDITIONAL BOOM WORK LIGHTS	50.00/ EACH
REAR WORK LIGHT, ONE (1)	\$345.00
ADDITIONAL REAR WORK LIGHTS	50.00/ EACH
STROBE LIGHT - FRONT ONE (1)	\$380.00
ADDITIONAL STROBE LIGHT - FRONT	\$225.00
LIMB GUARD	\$50.00
REAR-MOUNTED DIRECTIONAL ARROW-SPLIT TYPE	\$1,220.00
SEWER CLEANING ACCESSORIES OPTIONS	
10' X 1" LEADER HOSE	\$135.00
LATERAL CLEANING KIT 150' X ½" SHIPPED LOOSE	\$1,334.00
LATERAL CLEANING KIT 150 X ½" SIDE MOUNTED	\$1,805.00
OPTION AVAILABLE (NOT INCLUDED IN BASE BID)	



DESCRIPTION	PRICE
FILL HOSE - 25' X 2-1/2"	\$150.00
SEWER HOSE MENDING KIT (SWAGE KIT)	\$1,075.00
BALL & SOCKET STYLE TUBES (AQUATECH TUBES)	\$1,000.00
OPERATOR'S HANDLE	\$245.00
CHASSIS ACCESSORIES OPTIONS	
FRONT TOW HOOKS	\$210.00
REAR TOW HOOKS	\$210.00
REAR BUMPER	\$490.00
MUD FLAPS IN FRONT OF REAR TIRES	\$250.00
EXHAUST RELOCATION TO VERTICAL	CONSULT FACTORY
MOVE BOGIES FORWARD	\$1,680.00
MOVE BOGIES REARWARD	\$2,125.00
ALLISON AT, MT, HT SERIES (PTO UPCHARGE)	\$535.00
ALLISON MD, HD SERIES (PTO UPCHARGE)	\$1,461.00
SPECIAL NOTE: ALL WORLD TRANSMISSIONS MUST BE ORDERED WITH GROUP 75 PACKAGE 149 SEWERSUCKER APPLICATION	

REPORTS:

The contractor will submit yearly reports to the State Purchasing Agent (Debbie Gundersen) showing quantities and dollar volume of purchases by each agency and political subdivision. This report will be due by 8/1/00.

FINET COMMODITY CODE(S): FOR AGENCY USE ONLY

76521000000 - CULVERT CLEANING EQUIPMENT